

REMARKS/ARGUMENTS

Claims 1-7, 9-11 and 14-22 are pending in this application. By this Amendment, the title, Abstract and claims 1-7, 9-11 and 14-22 are amended, and claims 8, 12 and 13 are cancelled without prejudice or disclaimer. Support for the claims can be found throughout the specification, including the original claims and the drawings. Withdrawal of the rejections in view of the above amendments and the following remarks is respectfully requested.

I. Informalities

The Office Action objects to the specification, asserting that the title is not descriptive. It is respectfully submitted that the amendments to the title submitted herewith are responsive to the Examiner's comments, and thus the objection should be withdrawn.

II. Rejection Under 35 U.S.C. §112

The Office Action rejects claims 3, 9 and 18-22 under 35 U.S.C. §112, second paragraph as allegedly indefinite. It is respectfully submitted that the amendments to the claims submitted herewith are responsive to the Examiner's comments, and that claims 3, 9 and 18-22 meet the requirements of 35 U.S.C. §112, second paragraph. Accordingly, the rejection should be withdrawn.

III. Rejection Under 35 U.S.C. §102(b)

The Office Action rejects claims 1 and 2 under 35 U.S.C. § 102(b) over Han et al., U.S. Patent Publication No. 2004/0111496 (hereinafter "Han"). The rejection is respectfully traversed.

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Independent claim 1 is directed to a home appliance configured to communication over a power cable, including a body that defines an exterior of the home appliance, a main controller provided at the body, wherein the main controller controls operation of the home appliance and generates data corresponding to an operation mode of the home appliance, and a power cable communication modem provided at the body, wherein the power cable communication modem transmits the data from the main controller to a remote monitor that displays the data remotely.

Han neither discloses nor suggests all of the features recited in independent claim 1, or the claimed combination of features.

Han discloses a home network system including an internal network I that connects appliances A1-A4 in a first home via modems B1-B4, respectively. One of the appliances, for example, appliance A1, functions as a network master that manages transmission and reception of data over the network I in the first home. The master appliance A1 may display an appliance list of information related to all the appliances A1-A4. The modems B1-B4 may connect the appliances A1-A4 to a power source via a power line connector 11 and a home appliance connector 12, and the appliances A1-A4 each include a modem connector 21 that connects the appliances A1-A4 to the modems B1-B4. Each appliance A1-A4 is controlled by an appliance microcomputer 23, with a communication controller 24 controlling data transmission and reception.

Independent claim 1 recites that the power cable communication modem transmits the data (corresponding to the operation mode of the home appliance) from the main controller to a

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remote monitor that displays the data remotely. In contrast, in Han's system, the appliance A1 functions as the network master, where the listing of appliances is displayed and transmission of data is controlled. Thus, in Han's system, any operation data or information is displayed locally to the appliance, and not remotely, at a remote monitor. Thus, Han neither discloses nor suggests a home appliance in which a main controller provided at the body generates data corresponding to an operation mode of the home appliance, and a power cable communication modem transmits the data from the main controller to a remote monitor that displays the data remotely, as recited in independent claim 1.

Accordingly, it is respectfully submitted that independent claim 1 is not anticipated by Han, and thus the rejection of independent claim 1 under 35 U.S.C. §102(b) over Han should be withdrawn. Dependent claim 2 is allowable over Han at least for the reasons set forth above with respect to independent claim 1, from which it depends, as well as for its added features.

IV. Rejection Under 35 U.S.C. §103(a)

The Office Action rejects claims 3 and 19 under 35 U.S.C. §103(a) over Han in view of U.S. Patent No. 6,007,372 to Wood (hereinafter "Wood"). The rejection is respectfully traversed.

Independent claim 19 is directed to a home appliance configured to communicate over a power cable. Independent claim 19 recites, *inter alia*, a main controller provided at the body, wherein the main controller generates data corresponding to an operation mode of the home appliance, and a power cable communication modem provided at the body, wherein the power

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cable communication modem transmits the data from the main controller to a remote monitor that displays the data remotely.

As set forth above, Han neither discloses nor suggests such features. Further, Wood is merely cited as allegedly teaching the joining of power and data lines in a Y configuration, and for at least this reason fails to overcome the deficiencies of Han. Accordingly, it is respectfully submitted that independent claim 19 is allowable over the applied combination, and thus the rejection of independent claim 19 under 35 U.S.C. §103(a) over Han and Wood should be withdrawn.

Dependent claim 3 is allowable over Han at least for the reasons set forth above with respect to independent claim 1, from which it depends, as well as for its added features. Further, as set forth above, Wood fails to overcome the deficiencies of Han. Accordingly, it is respectfully submitted that claim 3 is allowable over the applied combination, and thus the rejection of claim 3 under 35 U.S.C. §103(a) over Han and Wood should be withdrawn.

The Office Action rejects claim 4 under 35 U.S.C. §103(a) over Han and Wood in view of U.S. Patent No. 5,860,826 to Chang (hereinafter “Chang”). The rejection is respectfully traversed.

Dependent claim 4 is allowable over Han at least for the reasons set forth above with respect to independent claim 1, from which it depends, as well as for its added features. Further, as set forth above, Wood fails to overcome the deficiencies of Han. Still further, Chang is merely cited as allegedly teaching the use of female and male terminals, and for at least this reason fails

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to overcome the deficiencies of Han, either alone or in combination with Wood. Accordingly, it is respectfully submitted that claim 4 is allowable over the applied combination, and thus the rejection of claim 4 under 35 U.S.C. §103(a) over Han, Wood and Chang should be withdrawn.

The Office Action rejects claims 5-8 and 20 under 35 U.S.C. §103(a) over Han and Wood in view of U.S. Patent No. 4,731,032 to Noorily (hereinafter “Noorily”). Claim 8 has been cancelled. The rejection, in so far as it applies to claims 5-7 and 20, is respectfully traversed.

Independent claim 20 is directed to a home appliance configured to communicate over a power cable. Independent claim 20 recites, *inter alia*, a main controller provided at the body, wherein the main controller generates data corresponding to an operation mode of the home appliance, and a power cable communication modem provided at the body, wherein the power cable communication modem transmits the data from the main controller to a remote monitor that displays the data remotely.

As set forth above, Han neither discloses nor suggests such features, and Wood fails to overcome the deficiencies of Han. Further, Noorily is merely cited as allegedly teaching a connector cover, and for at least this reason fails to overcome the deficiencies of Han, either alone or in combination with Wood. Accordingly, it is respectfully submitted that independent claim 20 is allowable over the applied combination, and thus the rejection of independent claim 20 under 35 U.S.C. §103(a) over Han, Wood and Noorily should be withdrawn.

Dependent claims 5-7 are allowable over Han at least for the reasons set forth above with respect to independent claim 1, from which they depend, as well as for their added features.

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Further, as set forth above, Wood and Noorily, either alone or in combination, fail to overcome the deficiencies of Han. Accordingly, it is respectfully submitted that claims 5-7 are allowable over the applied combination, and thus the rejection of claims 5-7 under 35 U.S.C. §103(a) over Han, Wood and Noorily should be withdrawn.

The Office Action rejects claims 9 and 21 under 35 U.S.C. §103(a) over Han in view of U.S. Patent No. 5,185,881 to Brooks et al. (hereinafter “Brooks”). The rejection is respectfully traversed.

Independent claim 21 is directed to a home appliance configured to communicate over a power cable. Independent claim 21 recites, *inter alia*, a main controller provided at the body, wherein the main controller generates data corresponding to an operation mode of the home appliance, and a power cable communication modem provided at the body, wherein the power cable communication modem transmits the data from the main controller to a remote monitor that displays the data remotely.

As set forth above, Han neither discloses nor suggests such features. Further, Brooks is merely cited as allegedly teaching a power supply connector, and for at least this reason fails to overcome the deficiencies of Han. Accordingly, it is respectfully submitted that independent claim 21 is allowable over the applied combination, and thus the rejection of independent claim 21 under 35 U.S.C. §103(a) over Han and Brooks should be withdrawn.

Dependent claim 9 is allowable over Han at least for the reasons set forth above with respect to independent claim 1, from which it depends, as well as for its added features. Further,

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as set forth above, Brooks fails to overcome the deficiencies of Han. Accordingly, it is respectfully submitted that claim 9 is allowable over the applied combination, and thus the rejection of claim 9 under 35 U.S.C. §103(a) over Han and Brooks should be withdrawn.

The Office Action rejects claim 10 under 35 U.S.C. §103(a) over Han and Brooks in view of Chang; rejects claims 11-16 under 35 U.S.C. §103(a) over Han in view of Denninghoff et al., U.S. Patent Publication No. 2004/0221194 (hereinafter “Denninghoff”); and rejects claims 17 and 18 under 35 U.S.C. §103(a) over Han in view of U.S. Patent No. 6,995,658 to Tutison et al. (hereinafter “Tutison”). Claims 12 and 13 have been cancelled. These rejection, in so far as they apply to claims 10, 11 and 14-18, is respectfully traversed.

Dependent claims 10, 11 and 14-18 are allowable over Han at least for the reasons set forth above with respect to independent claim 1, from which they depend, as well as for their added features. Further, as set forth above, Brooks and Chang, either alone or in combination, fail to overcome the deficiencies of Han. Still further, Denninghoff is merely cited as allegedly teaching a built in modem, and Tutison is merely cited as allegedly teaching a noise filter. Thus, Denninghoff and Tutison, either alone or in combination, fail to overcome the deficiencies of Han, either alone or in combination with Brooks and/or Chang. Accordingly, it is respectfully submitted that claims 10, 11 and 14-18 are allowable over the respective applied combinations, and thus the rejections should be withdrawn.

The Office Action rejects claim 22 under 35 U.S.C. §103(a) over Han and Brooks in view of Noorily. The rejection is respectfully traversed.

Independent claim 22 is directed to a home appliance configured to communicate over a power cable. Independent claim 22 recites, *inter alia*, a main controller provided at the body, wherein the main controller generates data corresponding to an operation state of the home appliance, and a power cable communication modem provided at the body, wherein the power cable communication modem transmits the data from the main controller to a remote monitor that displays the data remotely.

As set forth above, Han neither discloses nor suggests all of the features recited in independent claim 22, or the claimed combination of features. Further, as set forth above, Brooks and Noorily, either alone or in combination, fail to overcome the deficiencies of Han. Accordingly, it is respectfully submitted that independent claim 22 is allowable over the applied combination, and thus the rejection of independent claim 22 under 35 U.S.C. §103(a) over Han, Brooks and Noorily should be withdrawn.

V. Conclusion

In view of the foregoing amendments and remarks, it is respectfully submitted that the application is in condition for allowance. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned, **Joanna K. Mason**, at the telephone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. §1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this,

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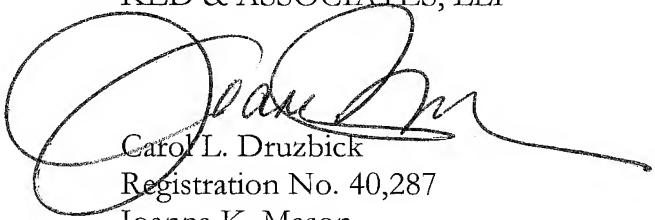
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concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and
please credit any excess fees to such deposit account.

Respectfully submitted,
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